



Hanford Site

Integration Project Expert Panel

Outbrief Presentation 7th Panel Meeting May 26, 2000

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IPEP Chairman**



Topics Covered

- **Hanford Site Outcomes and Implementation**
- **Overview of Detailed Work Plan for FY01**
- **Vadose Zone Monitoring**
- **Approaches to Inventory**
- **Update on Characterization Results and Plans**
- **Groundwater Remediation**



Overall Observations

- **IPEP appreciates talents and hard work of IP management and staff.**
- **IPEP appreciates feedback received from January Closeout Report.**
- **Integration Project has stimulated broader thinking on integration at Hanford.**
- **IPEP is pleased with visible efforts to balance obtaining new data with mining “old” data.**



Hanford Site Outcomes

Observations

- **On-going effort is an excellent start**
- **Vision has integrated concerns of many groups**
- **Good progress - still long way to go**
- **Integration is essential at Hanford**
- **Integration Project can play a key role**

Recommendation

- **Outcomes effort should be completed and implemented as a Data Quality Objectives effort at Hanford.**



Detailed Work Plan - 01

Observations

- **Strategy and changes being proposed seem reasonable**

Recommendation

- **Proceed as scheduled**



Vadose Zone Monitoring

Observations

- **Studies on recharge rates have been valuable. Have shown importance of vegetation**
- **Vadose zone flow tests (Sisson and Lu) well designed.**
- **Cooperation with scientists at five national labs, very good.**
- **Gamma logging has some potential to assess transport rates.**
- **Power of long-term monitoring clearly demonstrated in analysis of gross-gamma logs.**



Vadose Zone Monitoring (continued)

Recommendations

- **Specific recharge rate studies at specific sites.**
- **Revegetation to reduce recharge in disturbed areas**
- **Transport emphasis for the field flow tests.**
- **Like to see planning effort on future vadose zone monitoring.**



Approaches to Inventory

Observations

- **Presentation was first step - *Thanks!***
- **Next step - more quantitative presentation**
- **Kriging has reached limits of usefulness**

Recommendations

- **Provide more on inventory analysis**
- **No further funding of kriging re: gamma logs**



Update on Characterization

Observations

- **Applaud slant-borehole efforts**
 - **significant tool for future**
- **B-BX-BY Plan is excellent**
 - **case made for vertical borehole**
- **Data from W23-19 have promise**
 - **many applications**
 - **including S&T**
- **Pleased to see 5-year projection**



Update on Characterization (continued)

Recommendations

- **Do not retreat from 5-year plan**
- **Keep on track with field characterization**
- **W23-19 Report - *looking forward to it!***



Remediation

Observations

- **Mature program**
- **Pump and Treat limitations understood**
- **Evolving long-term strategy**
- **ISRM implemented**
- **Risks associated with PITT**
- **Carbon tet. not characterized in North Zone**

Recommendations

- **Characterize Carbon tet. source and plume in North Zone**
- **Peer review PITT Test**
- **Quantify effectiveness of plume control, discuss and publish**